

WHAT IS CLAIMED IS:

1. An electric motor armature comprising:
a cylindrical rotor casing;
a plurality of circumferentially spaced wire bundles encased about the circumference of said rotor casing; and
a circuit cap electrically connecting said wire bundles to each other.
2. An electric motor armature as recited in Claim 1 wherein said wire bundles are straight and have end portions.
3. An electric motor armature as recited in Claim 2 wherein said circuit cap connects said wire bundles to each other at one of said end portions.
4. An electric motor armature as recited in Claim 3 wherein said rotor casing defines an axis and said straight wire bundles lie parallel to said axis.
5. An electric motor armature as recited in Claim 4 wherein said end portions each have a connecting pin;
said circuit cap has a plurality of corresponding connecting pin mates;
and
each connecting pin mate is connected to a connecting pin using a PCB board-type circuit embedded within said circuit cap to provide a complete electrical circuit.

6. An electric motor armature comprising:
- #1 { a cylindrical rotor casing;
 - a plurality of circumferentially spaced wire bundles encased about the circumference of said rotor casing;
 - a circuit cap to electrically connect said wire bundles to each other;
 - #2 { wherein said wire bundles are generally straight and have end portions,
 - #3 { said circuit cap connects said wire bundles to each other at one of said end portions;
 - #4 { said rotor casing defining an axis and said straight wire bundles lie generally parallel to said axis, said end portions each have a connecting pin, and said circuit cap has a plurality of corresponding connecting pin mates; and
 - #5 { each connecting pin mate is connected to a connecting pin using a PCB board-type circuit embedded within said circuit cap to provide a complete electrical circuit.

7. A process for producing an electric motor armature comprising:
embedding a plurality of straight bundles of wire spaced about the
circumference of a cylindrical rotor casing so that said straight bundles
lie parallel to an axis defined by said cylindrical rotor casing; and
electrically connecting said straight bundles of wire to form a complete
electrical circuit.